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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/816,860	04/05/2004	Sung Su Shin		1155
7590 08/01/2005			EXAMINER	
DOHYUN PARK Apt. #2H			HANEY, RICHALE LEE	
200 Old Palisade Road			ART UNIT	PAPER NUMBER
Fort Lee, NJ 07024			3765	
			DATE MAIL ED: 08/01/2004	ς .

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>.</u>		Tata				
	Application No.	Applicant(s)				
Office Action Commons	10/816,860	SHIN, SUNG SU				
Office Action Summary	Examiner	Art Unit				
	Richale L. Haney	3765				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATIOI - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirt- iod will apply and will expire SIX (6) MON tute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 05	5 April 2004.					
2a) This action is FINAL . 2b) ⊠ T	☐ This action is FINAL . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allow	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-6 is/are pending in the applicatio	n.					
4a) Of the above claim(s) is/are withd	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Exam	iner.					
10) The drawing(s) filed on 05 April 2004 is/are:	a) accepted or b) ⊠ object	eted to by the Examiner.				
Applicant may not request that any objection to t	he drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corr	rection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority docume	ents have been received.					
2. Certified copies of the priority docume	ents have been received in A	pplication No				
Copies of the certified copies of the p	riority documents have been	received in this National Stage				
application from the International Bur						
* See the attached detailed Office action for a	list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-1449 or PTO/SB/08)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 04/05/04.	(08) 5) Notice of it					

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the single ply sweatband must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Application/Control Number: 10/816,860 Page 3

Art Unit: 3765

Specification

2. The disclosure is objected to because of the following informalities: subject headings are improperly underlined.

Appropriate correction is required.

Claim Objections

3. Claim 1 is objected to because of the following informalities: the format of claims should be limited to one sentence and it appears the word "wrap-way" is misspelled, and should be warp-way. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 5. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 indicates that the sweatband is woven in a cylindrical shape, which would require the sweatband be formed of two-ply. However, claim 2 states a sweatband that is formed of a single ply. The structure of claim 2 is rendered indefinite, because of a conflict with the independent claim from which it is based.

Application/Control Number: 10/816,860 Page 4

Art Unit: 3765

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1- 6 are rejected under 35 U.S.C. 103(a) as being obvious over Park (2004/0019954) in view of Young et al. (6,107,538).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). This rejection might also be overcome by showing that the reference is disqualified under 35 U.S.C. 103(c) as prior art in a rejection under 35 U.S.C. 103(a). See MPEP § 706.02(l)(1) and § 706.02(l)(2).

Application/Control Number: 10/816,860

Art Unit: 3765

Park discloses a cap with a tunnel shaped (Figure 2) sweatband with no additional stitching, constructed by a weave structure that includes a two-yarn interval in the weft (Page 2, paragraph 0019) and neither the weft or warp yarns containing polyurethane (Page 1, paragraph 0017). Park also discloses a two-ply headband (Figure 2) coupled to the bottom edge of a cap consisting of a crown and visor attached to the front peripheral edge of the crown (Figure 1). It can be seen that Park lacks the specific denier range of (0.05 –1.05) and fiber type of 100% polyester as specified in claim 1. Young et al. discloses a device used to absorb bodily liquids made from polyester fiber (Column 27, line 36) with a decitex range from 1-20 (Column 27, 64-66), which would equate to a denier range of 0.09 – 18. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Park by utilizing the low denier yarn range taught by Young et al. in order to obtain an absorbent fabric. In regard to the yarn having twist at even intervals, it is well known in the art that uneven intervals are only used for specific functions, none of which apply to the claimed endeavor. It would have been obvious to a person of regular skill in the art at the time the invention was made to use a yarn with regular twist intervals in order to achieve regularity. It is noted that the it would have been obvious to use 100% polyester varn in place of the disclosed fiber blend because the percentage of fiber used is not significant to the patentability of the sweatband. The device of Park also lacks the dyeing process using high temperature in claims 4 and 6.

Page 5

a. In assessing the subject matter of product-by-process claims, it is necessary to bear in mind certain principles. Foremost among these is the

Application/Control Number: 10/816,860

Art Unit: 3765

principle that even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. In re Thorpe, 777 F.2d 695, 227 USPQ 964 (Fed. Cir. 1985); In re Brown, 459 F. 2d 531, 173 USPQ 685 (CCPA 1972); In re Pilkington, 411 F.2d 1345, 162 USPQ 145 (CCPA 1969). Thus, the patentability of a product does not depend on the method of production. Thorpe, supra. If the product in a product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. Thorpe, supra; In re Marosi, 710 F.2d 799, 218 USPQ 289 (Fed. Cer. 1983). The Court of Customs and Patent Appeals discussed these principles as well as the rationale for rejection of such claims over prior art disclosures of products in In re Brown, 459 F.2d 531, 173 USPQ 685 (CCPA 1972) as follows:

Page 6

In order to be patentable, a product must be novel, useful and unobvious. In our law, this is true whether the product is claimed by describing it, or by listing the process steps used to obtain it. This latter type of claim, usually called a product-by-process claim, does not inherently conflict with the second paragraph of 35 USC 112. [citation] omitted] That method of claiming is therefore a perfectly acceptable one so long as the claims particularly point out and distinctly claim the product or genus of products for which protection is sought and satisfy the other requirements of the statute. It must be admitted, however, that the lack of physical description in a product-by-process claim makes determination of the patentability of the claim more difficult, since in spite of the fact that the claim may recite only process limitations, it is the patentability of the product claimed and not of the recited process steps which must be established. We are therefore of the opinion that when the prior art discloses a product which reasonably appears to be either identical with or only slightly different than a product claimed in a product-by-process claim, a rejection based alternatively on either section 102 or section 103 of the statute is eminently fair and acceptable. As a practical matter, the Patent Office is not equipped to manufacture products by the myriad of processes put before it and then obtain prior art products and make physical comparisons therewith. (emphasis in the original, footnotes omitted).

Application/Control Number: 10/816,860 Page 7

Art Unit: 3765

Thus, although process limitations distinguishing the product over the prior art must be given the same consideration as traditional product characteristics, <u>In re Hallman</u>, 655 F,2d 212, 210 USPQ 609 (CCPA 1981), <u>In re Luck</u>, 476 F.2d 650, 177 USPQ 523 (CCPA 1973), and although product-by-process claims are limited by and defined by the process, determination of patentability remains based upon the product itself, <u>Thorpe</u>, 227 USPQ at 966.

In view of the similarities between the claimed process, i.e. "twist at regular intervals", and that of the prior art of Park, it is reasonable to believe that the product made by the prior art process would be either identical to or only slightly different from the claimed product. In such a situation, the burden of proof shifts to applicant to prove that the claimed product is materially different.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richale L. Haney whose telephone number is 571-272-8689. The examiner can normally be reached on M-F 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John J. Calvert can be reached on 571 -272-4983. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KATHERINE MORAN PRIMARY EXAMINER Richale L. Haney Patent Examiner Art Unit 3765 July 25, 2005

RLH